SCHOOL OF CIVIL ENGINEERING

# JOINT HIGHWAY RESEARCH PROJECT

JHRP-77-12

## TRAFFIC SPEED REPORT NO. 100

G.S. Toft
G.K. Stafford

PURDUE UNIVERSITY
INDIANA STATE HIGHWAY COMMISSION

# TRAFFIC SPEED REPORT NO. 100

TO: J. F. McLaughlin, Director
Joint Highway Research Project

July 6, 1977

File: 8-3-3

FROM: H. L. Michael, Associate Director
Joint Highway Research Project

Project: C-36-10C

The attached Progress Report No. 100 on Traffic Speeds is the report of the January-March 1977 quarterly study of free-flowing automobile and truck speeds on rural, tangent, level sections of Interstate, 4-lane and 2-lane and on urban interstate highways in Indiana. The report has been prepared by Mr. G. S. Toft, a Graduate Instructor in Research on our staff, under the direction of Professor H. L. Michael. The data collection was directed by Mr. G. K. Stafford of our staff.

The results indicate similar speeds for all passenger cars and trucks as those of the October-December 1976 Study.

Copies of the report will be sent to the Federal Highway Administration and the ISHC for review, comment and acceptance as fulfillment of the objectives of this HPR Part I Study. Copies of the report are requested for release to the Indiana State Police and the Indiana Office of Traffic Safety as a normal procedure for these reports.

Respectfully submitted,

Harold L. Michael
Associate Director

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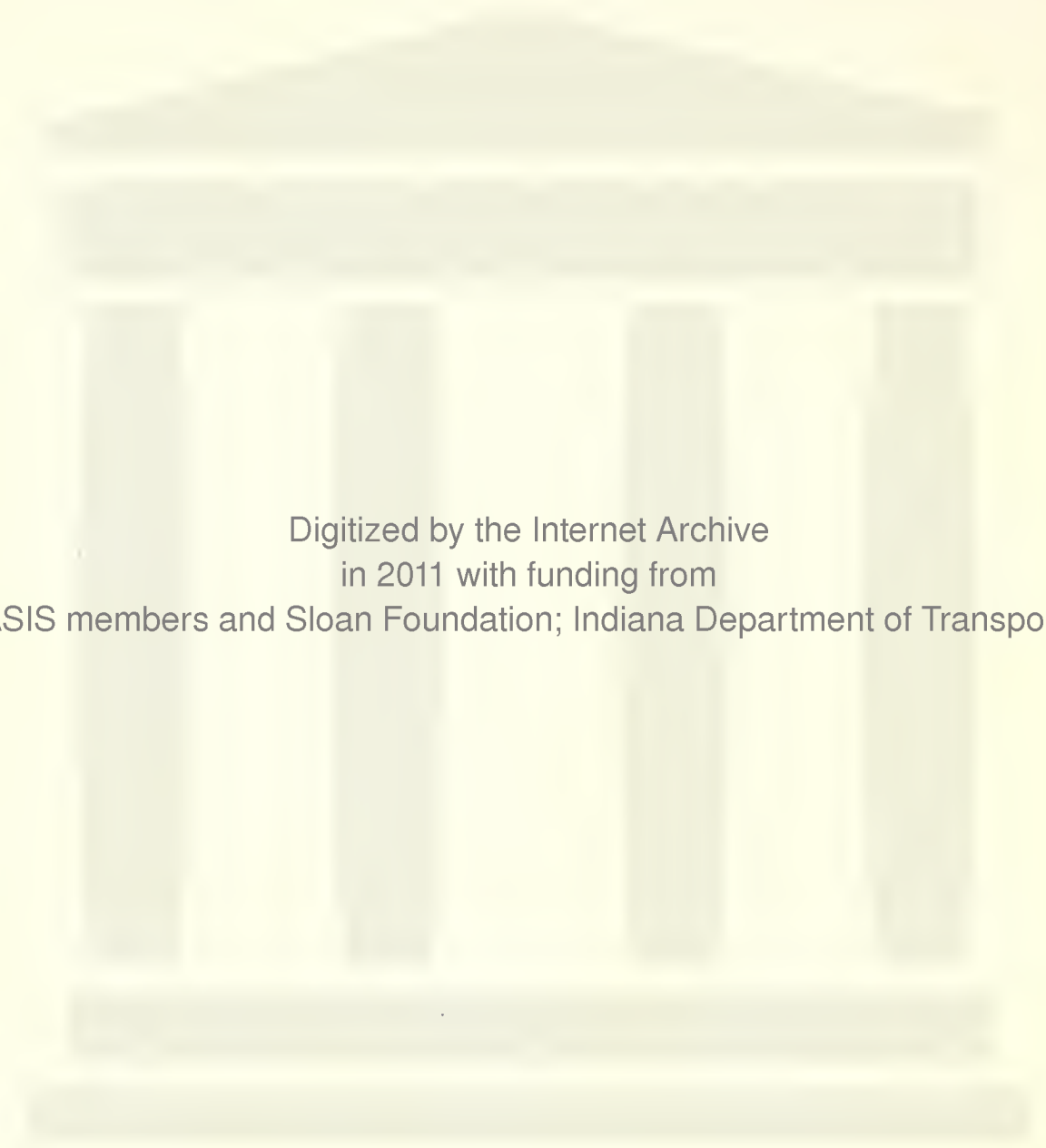

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Interim Report

# TRAFFIC SPEED REPORT NO. 100

by

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Joint Highway Research Project
File No.: 8-3-3
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Purdue University

in cooperation with the

Indiana State Highway Commission

and the

U. S. Department of Transportation
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The opinions, findings and conclusions expressed in this publication are those of the authors and not necessarily those of the Federal Highway Administration.

Purdue University
West Lafayette, Indiana
July 6, 1977

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15. Supplementary Notes

Conducted in cooperation with the U. S. Department of Transportation, Federal Highway Administration. Planning Study titled "Speed Trends Trends for Indiana Highways".

16. Abstract

This report is another in the continuing study of speeds of vehicles on Indiana Highways. Observations of spot speeds were taken on interstate, four-lane and two-lane highways throughout the state during the January-March 1977 Quarter.

Analysis of the speeds showed the overall average speed for all vehicles was 57.0 mph. The overall average speed for passenger cars and all trucks was 57.8 mph and 56.0 mph, respectively. These overall average speeds were similar for passenger cars and trucks to the speeds found in the October-December 1976 Study (Speed Report No. 99).

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# TRAFFIC SPEED REPORT NO. 100

This report is an analysis of spot speed observations made during the January-March 1977 Quarter. All observations were made of free-flowing vehicles on level, tangent sections of rural and urban highways during daylight and under favorable conditions.

The speed monitoring stations for each highway classification were divided into two groups. The first group is identified as "control stations" and were the same locations on selected Federal and State highways as used in previous studies. The second group is selected at random for each quarterly study.

Fourteen speed monitoring stations were operated for the reported study. Seven of these stations were the control stations noted above. The other seven stations were those selected at random for this quarterly study.

Stations were classified as two-lane, four-lane, rural interstate, or urban interstate highways. A representative sample of spot speeds was obtained at each station in each classification. The site locations were as follows: (See Figure A)

| | |
|---|---|
| | **Rural Interstate Highways** |
| *RI-21 (I-69) | 3.3 miles south of junction of SR 18 |
| *RI-6 (I-65) | 7.5 miles north of junction of SR 160 |
| RI-8 (I-65) | 2.8 miles north of junction of SR 46 |
| RI-30 (I-65) | 1.4 miles north of junction of SR 14 |
| | **Four-Lane Highways** |
| *4L-32 (U.S. 30) | 2.0 miles east of junction of SR 49 |
| *4L-17 (U.S. 52) | 1.0 mile west of Klondike |
| 4L-31 (U.S. 30) | 1.6 miles east of SR 39 |
| 4L-7 (U.S. 40) | 2.0 miles east of Harmony |
| | **Two-lane Highways** |
| *2L-18 (U.S. 35) | 1.5 miles east of junction of I-69 |
| *2L-54 (U.S. 231) | 1.0 mile south of junction of SR 234 |
| 2L-84 (U.S. 150) | 4.8 miles north of junction of U.S. 40 |
| 2L-17 (U.S. 6) | 1.3 miles east of Dekalb & Noble Co. Line |
| | **Urban Interstate Highways** |
| *UI-6 (I-65) | East of White River Bridge |
| UI-8 (U.S. 265) | 0.7 miles east of bridge of SR 111 |

The vehicles were classified as Indiana or Non-Indiana Passenger Cars and Light (less than 5000 lbs. gross weight) or Heavy (equal to or more than 5000 lbs. gross weight) Trucks. The analysis was performed as classified and combined, passenger cars or trucks.

The maximum speed limit in Indiana is 55 miles per hour, both on Interstate and other rural highways.

*Control stations

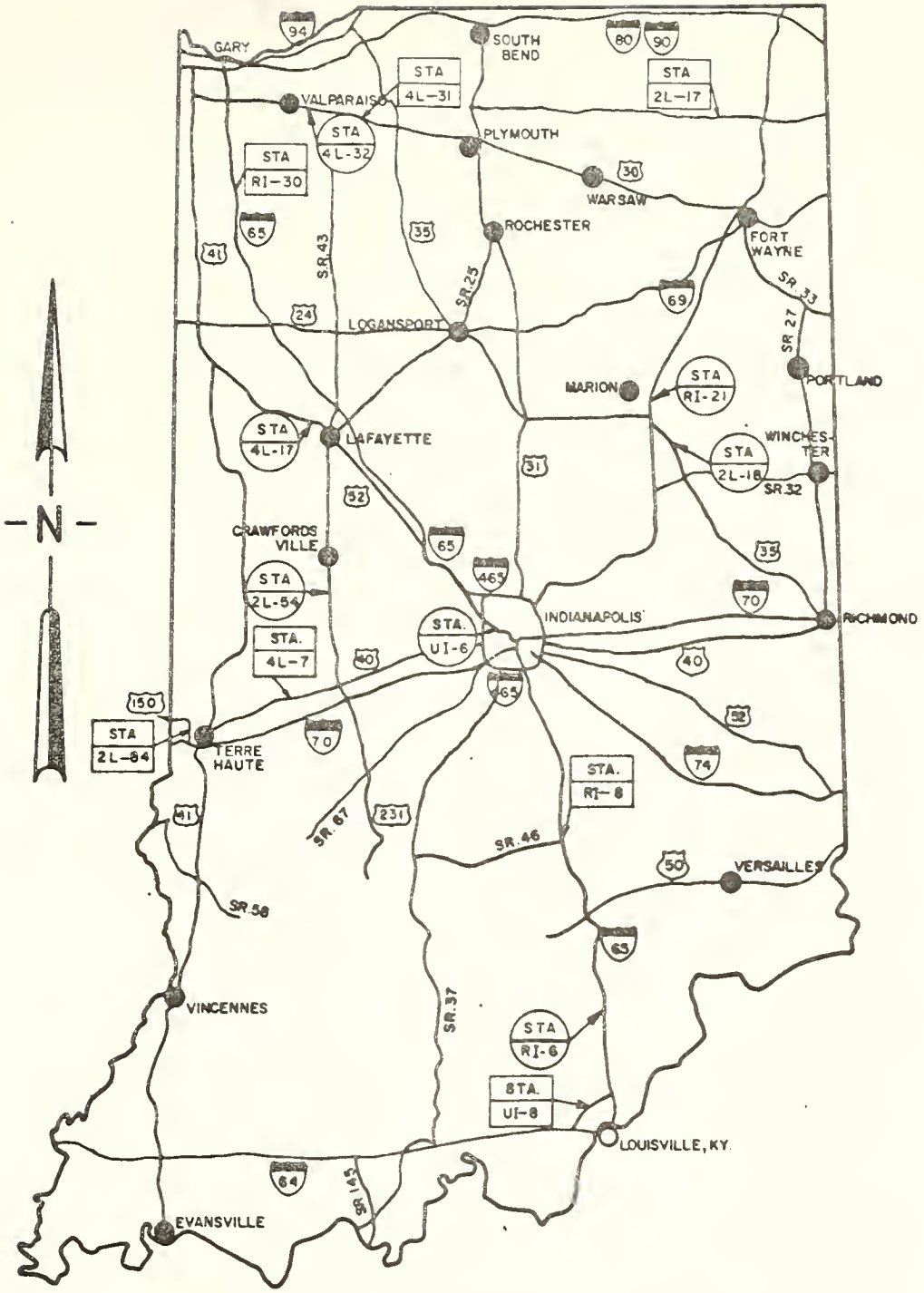


FIGURE A , LOCATIONS OF SPEED-STUDY STATIONS

## Equipment and Field Procedure

The observations for this study were obtained by use of a Radar Speed Meter. The meter was located in a van type vehicle parked as a disabled vehicle on the right shoulder. The van was equipped with one-way vision windows on the rear and side facing traffic so that approaching vehicles could not observe the speed measurement process. The observers were also equipped with CB radio equipment so as to monitor possible radio notification of the speed measurement and of police vehicles in the area. When any such incidents ocurred speeds were not taken for at least a following 15 minute period. Such periods rarely ocurred. There was rarely indication, in fact, that motorists were ever aware of the presence of a speed measuring station while it was in operation.

The speed was measured at a distance from the van that the angle of measurement with the highway center line was always less than $10^{o}$. No corrections of speeds were necessary at these small angles. At the beginning of the study the accuracy of the meter was checked and any constant discrepancy of readings was corrected accordingly.

## RESULTS OF ANALYSIS

The data collected were analyzed and are summarized in Tables 1 to 14 in the Appendix. Tables 15, 16, 17 and 18 summarize the data for rural interstate, four lane, two lane and urban interstate highways, respectively. Table 19 is the summary for all highways. Tables 20 through 34 are summaries in an FHWA format which is desired.

The average speed for each classification of vehicles on each type of highway for this study was as follows:

| | Interstate | | Other | |
|---|---|---|---|---|
| | Urban | Rural | Four Lane Rural | Two Lane Rural |
| Passenger Cars: | | | | |
| Indiana | 57.0 | 60.1 | 56.7 | 56.5 |
| Non-Indiana | 57.1 | 61.0 | 58.7 | 58.3 |
| All Passenger Cars | 57.0 | 60.5 | 57.0 | 56.7 |
| 85 Percentile (all) | 61.5 | 64.7 | 61.7 | 61.8 |
| Trucks: | | | | |
| Less than 5000 lbs. | 55.9 | 58.0 | 54.8 | 55.8 |
| 5000 lbs. or more | 56.2 | 59.3 | 54.8 | 53.5 |
| All Vehicles: | | | | |
| Average | 56.7 | 59.8 | 56.0 | 55.8 |
| 85 Percentile | 61.1 | 64.2 | 61.1 | 61.2 |

The percent of vehicles exceeding the speed limit (55 mph) for each classification of vehicle and each type of highway was as follows:

| | Interstate | | Other | |
|---|---|---|---|---|
| | Urban | Rural | Four Lane | Two Lane |
| Passenger Cars: | | | | |
| Indiana | 60.7 | 82.4 | 59.7 | 57.3 |
| Non-Indiana | 63.9 | 89.2 | 77.2 | 69.6 |
| All Passenger Cars | 61.2 | 86.0 | 62.4 | 59.0 |
| Trucks: | | | | |
| Less than 5000 lbs. | 54.1 | 70.6 | 49.1 | 50.9 |
| 5000 lbs. or more | 59.9 | 76.8 | 51.9 | 39.3 |
| All Vehicles: | 59.8 | 81.2 | 57.2 | 53.1 |

The percent of vehicles traveling more than 5 mph above the speed limit (exceeding 60 mph) for each case was as follows:

| | Interstate | | Other Four Lane | Two Lane |
|---|---|---|---|---|
| | Urban | Rural | Rural | Rural |
| Passenger Cars: | | | | |
| Indiana | 23.6 | 45.1 | 23.7 | 21.8 |
| Non-Indiana | 26.4 | 51.9 | 34.9 | 28.4 |
| All Passenger Cars | 23.9 | 48.6 | 25.4 | 22.8 |
| Trucks: | | | | |
| Less than 5000 lbs. | 14.8 | 28.9 | 17.0 | 19.4 |
| 5000 lbs. or more | 19.2 | 42.2 | 13.4 | 12.6 |
| All Vehicles: | 21.6 | 44.2 | 20.7 | 19.9 |

The percent of vehicles traveling more than 10 miles per hour above the speed limit (exceeding 65 mph) for each case was as follows:

| | Interstate | | Other Four Lane | Two Lane |
|---|---|---|---|---|
| | Urban | Rural | Rural | Rural |
| Passenger Cars: | | | | |
| Indiana | 5.2 | 12.6 | 5.1 | 6.9 |
| Non-Indiana | 5.6 | 14.5 | 9.4 | 10.1 |
| All Passenger Cars | 5.2 | 13.6 | 5.8 | 7.3 |
| Trucks: | | | | |
| Less than 5000 lbs. | 3.0 | 9.6 | 3.1 | 5.4 |
| 5000 lbs. or more | 2.3 | 9.7 | 2.0 | 1.5 |
| All Vehicles: | 4.3 | 11.9 | 4.3 | 5.7 |

## Summary and Conclusions

The overall average speed for all vehicles and passenger cars in this study was found to be 57.0 and 57.8 mph, respectively. The overall average speeds for heavy trucks and for all trucks were found to be 56.0 mph and 56.0 mph, respectively. These overall average speeds were very similar to overall average speeds as found in the October-December 1976 Study.

Table A presents a comparison of the overall speed results with that of the previous two studies. The 85th percentile speed of passenger cars was about the same for the three periods under consideration.

A comparison of the January-March 1977 speed data with that for other recent periods for several types of highway for passenger cars and trucks is shown in Tables B, C, D and E.

Average truck speeds showed no major variations for each highway type as compared to the October-December 1976 study. Over the last year truck speeds on other 4-lane rural highways have shown a continuing downward trend not observable on other highway types.

The small overall decline in the average speeds and 85th percentile speeds for passenger cars was brought about by speed reductions mainly on urban interstate and other 4-lane rural highways. Average passenger car speeds actually increased slightly on rural interstate and 2-lane highways compared with November-December 1976 figures. Over the last year passenger car speeds on rural interstate highways have shown a continuous upward trend not observable on other highway types.

TABLE A

COMPARISON OF THE OVERALL SPEED RESULTS

| | Jan.-Mar. 1977 | Oct.-Dec. 1976 | July-Sept. 1976 |
|---|---|---|---|
| Average: | | | |
| All Passenger Cars | 57.8 | 58.0 | 58.0 |
| Heavy Trucks | 56.0 | 56.0 | 57.1 |
| All Trucks | 56.0 | 56.1 | 57.0 |
| 85 Percentile: | | | |
| All Passenger Cars | 62.7 | 63.0 | 62.7 |
| Heavy Trucks | 61.5 | 60.9 | 61.9 |
| All Trucks | 61.4 | 61.0 | 61.9 |
| 15 Percentile: | | | |
| Heavy Trucks | 49.7 | 50.3 | 51.4 |

TABLE B

AVERAGE SPEEDS ON INTERSTATE HIGHWAYS (URBAN)

| | Jan.-Mar. 1977 | Oct.-Dec. 1976 | July-Sept. 1976 | Apr.-June 1976 |
|---|---|---|---|---|
| Passenger Cars: | | | | |
| Indiana | 57.0 | 57.3 | 58.4 | 57.5 |
| Non-Indiana | 57.1 | 57.8 | 58.6 | 57.8 |
| All Passenger Cars | 57.0 | 57.3 | 58.4 | 57.5 |
| 85 Percentile (all) | 61.5 | 61.2 | 63.6 | 61.6 |
| Trucks: | | | | |
| Less than 5000 lbs. | 55.9 | 55.7 | 57.7 | 56.4 |
| 5000 lbs. or more | 56.2 | 55.4 | 57.3 | 54.8 |

TABLE C

AVERAGE SPEEDS ON INTERSTATE HIGHWAYS (RURAL)

| | Jan.-Mar. 1977 | Oct.-Dec. 1976 | July-Sept. 1976 | Apr.-June 1976 |
|---|---|---|---|---|
| Passenger Cars: | | | | |
| Indiana | 60.1 | 59.7 | 59.5 | 58.1 |
| Non-Indiana | 61.0 | 60.1 | 60.2 | 58.9 |
| All Passenger Cars | 60.5 | 59.9 | 59.8 | 58.6 |
| 85 Percentile (all) | 64.7 | 64.5 | 64.3 | 62.5 |
| Trucks: | | | | |
| Less than 5000 lbs. | 58.0 | 58.0 | 58.5 | 57.1 |
| 5000 lbs. or more | 59.3 | 57.4 | 58.4 | 58.7 |

TABLE D

AVERAGE SPEEDS ON OTHER FOUR-LANE HIGHWAYS

| | Jan.-Mar. 1977 | Oct.-Dec. 1976 | July-Sept. 1976 | Apr.-June 1976 |
|---|---|---|---|---|
| Passenger Cars: | | | | |
| Indiana | 56.7 | 58.1 | 57.2 | 57.1 |
| Non-Indiana | 58.7 | 59.8 | 57.8 | 57.2 |
| All Passenger Cars | 57.0 | 58.3 | 57.3 | 57.1 |
| 85 Percentile (all) | 61.7 | 63.7 | 61.8 | 61.9 |
| Trucks: | | | | |
| Less than 5000 lbs. | 54.8 | 56.8 | 56.9 | 56.6 |
| 5000 lbs. or more | 54.8 | 55.9 | 56.6 | 57.0 |

TABLE E

AVERAGE SPEEDS ON TWO-LANE HIGHWAYS

| | Jan.-Mar. 1977 | Oct.-Dec. 1976 | July-Sept. 1976 | Apr.-June 1976 |
|---|---|---|---|---|
| Passenger Cars: | | | | |
| Indiana | 56.5 | 56.4 | 56.4 | 55.3 |
| Non-Indiana | 58.3 | 56.3 | 57.8 | 55.3 |
| All Passenger Cars | 56.7 | 56.4 | 56.6 | 55.3 |
| 85 Percentile (all) | 61.8 | 61.4 | 61.5 | 60.7 |
| Trucks: | | | | |
| Less than 5000 lbs. | 55.8 | 54.9 | 55.6 | 53.5 |
| 5000 lbs. or more | 53.5 | 54.4 | 55.4 | 53.5 |

TABLE 1 SPEED DATA

Station RI-6 Highway I-65 Location 7.5 Miles North of SR 160

No. of Lanes 4 Type of Surface Concrete Weather Clear

This Observation
Date 3/14/77
Time 12:12 - 1:05PM-SB & 1:20 - 2:20PM-NB

Last Previous Observation (Speed Report No. 99)
Date 11/18/76
Time 9:05 - 10.07AM-SB & 10:36 - 11:23AM-NB

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | 246 | 275 | 161 | 120 | 85 | 155 | 195 | 202 | 46 | 61 | 149 | 141 |
| | Ave. speed (m.p.h.) | 60.09 | 60.43 | 60.45 | 60.01 | 59.39 | 60.75 | 58.17 | 59.69 | 57.72 | 59.49 | 58.32 | 59.77 |
| | Standard deviation | 4.731 | 5.548 | 4.672 | 5.586 | 4.791 | 5.514 | 4.823 | 4.891 | 4.241 | 5.019 | 4.993 | 4.850 |
| | % of vehicles traveling at or less than 24 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 29 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 34 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 39 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 44 m.p.h. | .41 | .36 | 0 | .83 | 1.18 | 0 | 0 | 0.50 | 0 | 1.64 | 0 | 0 |
| | 49 m.p.h. | .41 | 4.00 | 0 | 4.17 | 1.18 | 3.87 | 1.54 | 2.48 | 0 | 1.64 | 2.01 | 2.84 |
| | 54 m.p.h. | 11.79 | 13.09 | 9.94 | 15.83 | 15.29 | 10.97 | 23.59 | 13.37 | 23.91 | 11.48 | 23.49 | 14.18 |
| | 59 m.p.h. | 46.34 | 41.09 | 45.34 | 43.33 | 48.24 | 39.35 | 62.05 | 49.01 | 63.04 | 55.74 | 61.74 | 46.10 |
| | 64 m.p.h. | 84.55 | 83.27 | 83.23 | 84.17 | 87.06 | 82.58 | 90.77 | 85.64 | 93.48 | 86.89 | 89.93 | 85.11 |
| | 69 m.p.h. | 96.34 | 94.18 | 95.65 | 94.17 | 97.65 | 94.19 | 97.44 | 98.02 | 100.0 | 98.36 | 96.64 | 97.87 |
| | 74 m.p.h. | 100.0 | 98.91 | 100.0 | 100.0 | 100.0 | 98.06 | 100.0 | 99.50 | 100.0 | 100.0 | 100.0 | 99.29 |
| | 79 m.p.h. | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | 84 m.p.h. | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | 89 m.p.h. | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Bnd | No. of vehicles obs. | 122 | 147 | 74 | 61 | 48 | 86 | 93 | 115 | 26 | 42 | 69 | 73 |
| | Average speed | 60.15 | 61.43 | 60.03 | 60.62 | 59.92 | 62.00 | 56.91 | 60.42 | 57.23 | 60.10 | 56.78 | 60.60 |
| Bnd | No. of vehicles obs. | 124 | 128 | 87 | 59 | 37 | 69 | 100 | 87 | 20 | 19 | 80 | 68 |
| | Average speed | 60.02 | 59.28 | 60.59 | 59.37 | 58.70 | 59.20 | 59.38 | 58.72 | 58.35 | 58.16 | 59.64 | 58.88 |

TABLE 2 SPEED DATA

Station RI-21 Highway I-69 Location 3 Miles South of SR 18

No. of Lanes 4 Type of Surface Concrete Weather Overcast

This Observation
Date 3/17/77
Time 10:35-11:31AM-NB & 12:03-1:12PM-SB

Last Previous Observation (Speed Report No. 99)
Date 11/8/76
Time 10:55-11:55AM-NB & 12:22-1:12PM-SB

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | 279 | 242 | 166 | 137 | 113 | 105 | 181 | 186 | 50 | 55 | 131 | 131 |
| | Ave. speed (m.p.h.) | 59.39 | 60.24 | 58.95 | 59.30 | 60.04 | 61.48 | 56.73 | 57.91 | 57.66 | 57.18 | 56.61 | 58.22 |
| | Standard deviation | 5.005 | 5.138 | 4.999 | 4.919 | 4.966 | 5.180 | 5.143 | 5.109 | 6.393 | 5.677 | 4.600 | 4.841 |
| | % of vehicles traveling at or less than 24 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 29 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 34 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 39 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 44 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 2.21 | .54 | 2.00 | 1.82 | 2.29 | 0 |
| | 49 m.p.h. | 1.79 | 2.48 | 1.20 | 3.65 | 2.65 | .95 | 7.18 | 4.84 | 6.00 | 7.27 | 7.63 | 3.82 |
| | 54 m.p.h. | 16.49 | 10.33 | 19.28 | 13.87 | 12.39 | 5.71 | 32.04 | 25.27 | 38.00 | 32.73 | 29.77 | 22.14 |
| | 59 m.p.h. | 53.05 | 46.69 | 57.23 | 54.01 | 46.90 | 37.14 | 74.03 | 63.98 | 72.00 | 67.27 | 74.81 | 62.60 |
| | 64 m.p.h. | 86.38 | 84.30 | 86.14 | 87.59 | 86.73 | 80.0 | 93.37 | 88.71 | 86.00 | 89.09 | 96.18 | 88.55 |
| | 69 m.p.h. | 96.77 | 94.21 | 97.59 | 97.08 | 95.58 | 90.48 | 98.34 | 98.39 | 96.00 | 98.18 | 99.24 | 98.47 |
| | 74 m.p.h. | 99.28 | 98.76 | 100.0 | 99.27 | 98.23 | 98.10 | 100.0 | 100.0 | 100.0 | 100 | 100.0 | 100.0 |
| | 79 m.p.h. | 100.0 | 100.0 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100.0 | 100.0 | 100 | 100.0 | 100 |
| | 84 m.p.h. | 100.0 | 100.0 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100.0 | 100.0 | 100 | 100.0 | 100 |
| | 89 m.p.h. | 100.0 | 100.0 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100.0 | 100.0 | 100 | 100.0 | 100 |
| Bnd | No. of vehicles obs. | 157 | 118 | 110 | 72 | 47 | 46 | 84 | 96 | 16 | 25 | 68 | 71 |
| | Average speed | 59.69 | 61.08 | 59.19 | 60.25 | 60.85 | 62.37 | 57.21 | 59.25 | 57.25 | 58.56 | 57.21 | 59.49 |
| Bnd | No. of vehicles obs. | 122 | 124 | 56 | 65 | 66 | 59 | 97 | 90 | 34 | 30 | 63 | 60 |
| | Average speed | 59.01 | 59.45 | 58.48 | 58.25 | 59.45 | 60.78 | 56.32 | 56.49 | 56.97 | 56.03 | 55.97 | 56.72 |

TABLE 3 SPEED DATA

Station RI-8 Highway I-65 Location NB 2.8 miles north of SR 46 @ #71 mile marker
SB 4.5 miles south of SR 46 @ Taylorsville

No. of Lanes 4 Type of Surface Concrete Weather Clear

This Observation
Date 3/29/77
Time 11:06-11:43AM-SB & 12:19-1:00PM-NB

Last Previous Observation (Speed Report No. __)
Date None Taken
Time

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 232 | | 109 | | 123 | | 198 | | 62 | | 136 |
| | Ave. speed (m.p.h.) | | 60.64 | | 60.72 | | 60.58 | | 58.09 | | 57.29 | | 58.46 |
| | Standard deviation | | 5.276 | | 5.588 | | 5.007 | | 5.644 | | 5.681 | | 5.609 |
| | % of vehicles traveling at or less than 24 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 29 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 34 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 39 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 44 m.p.h. | | 0 | | 0 | | 0 | | 1.52 | | 3.23 | | .74 |
| | % of vehicles traveling at or less than 49 m.p.h. | | .86 | | .92 | | .81 | | 6.06 | | 6.45 | | 5.88 |
| | % of vehicles traveling at or less than 54 m.p.h. | | 9.91 | | 11.01 | | 8.94 | | 24.24 | | 32.26 | | 20.59 |
| | % of vehicles traveling at or less than 59 m.p.h. | | 43.97 | | 44.04 | | 43.90 | | 60.61 | | 67.74 | | 57.35 |
| | % of vehicles traveling at or less than 64 m.p.h. | | 80.60 | | 80.73 | | 80.49 | | 88.38 | | 88.71 | | 88.24 |
| | % of vehicles traveling at or less than 69 m.p.h. | | 92.67 | | 91.74 | | 93.50 | | 97.47 | | 98.39 | | 97.06 |
| | % of vehicles traveling at or less than 74 m.p.h. | | 98.28 | | 97.25 | | 99.19 | | 99.49 | | 100 | | 99.26 |
| | % of vehicles traveling at or less than 79 m.p.h. | | 99.57 | | 99.08 | | 100 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 84 m.p.h. | | 100.0 | | 100 | | 100 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 89 m.p.h. | | 100.0 | | 100 | | 100 | | 100 | | 100 | | 100 |
| Bnd | No. of vehicles obs. | | 120 | | 51 | | 69 | | 93 | | 35 | | 58 |
| Bnd | Average speed | | 61.13 | | 61.65 | | 60.75 | | 60.04 | | 57.94 | | 61.31 |
| Bnd | No. of vehicles obs. | | 112 | | 58 | | 54 | | 105 | | 27 | | 78 |
| Bnd | Average speed | | 60.12 | | 59.90 | | 60.35 | | 56.36 | | 56.44 | | 56.33 |

TABLE 4 SPEED DATA

Station RI-30 Highway I-65 Location 1.4 Miles North of SR 14

No. of Lanes 4 Type of Surface Concrete Weather Clear

This Observation
Date 3/25/77
Time 10:49-11:32AM-NB

Last Previous Observation (Speed Report No. __)
Date None Taken
Time

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 127 | | 55 | | 72 | | 85 | | 19 | | 66 |
| | Ave. speed (m.p.h.) | | 61.13 | | 61.00 | | 61.22 | | 61.01 | | 58.05 | | 61.86 |
| | Standard deviation | | 5.400 | | 4.985 | | 5.729 | | 5.023 | | 5.492 | | 4.577 |
| | % of vehicles traveling at or less than 24 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 29 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 34 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 39 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 44 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 49 m.p.h. | | .79 | | 0 | | 1.39 | | 1.18 | | 5.26 | | 0 |
| | 54 m.p.h. | | 6.30 | | 5.45 | | 6.94 | | 11.76 | | 21.05 | | 9.09 |
| | 59 m.p.h. | | 34.65 | | 36.36 | | 33.33 | | 34.12 | | 68.42 | | 24.24 |
| | 64 m.p.h. | | 80.31 | | 80 | | 80.56 | | 80.0 | | 94.74 | | 75.76 |
| | 69 m.p.h. | | 96.06 | | 94.55 | | 97.22 | | 92.94 | | 94.74 | | 92.42 |
| | 74 m.p.h. | | 96.85 | | 96.36 | | 97.22 | | 98.82 | | 94.74 | | 100 |
| | 79 m.p.h. | | 99.21 | | 100 | | 98.61 | | 100 | | 100 | | 100 |
| | 84 m.p.h. | | 99.21 | | 100 | | 98.61 | | 100 | | 100 | | 100 |
| | 89 m.p.h. | | 99.21 | | 100 | | 98.61 | | 100 | | 100 | | 100 |
| Bnd | No. of vehicles obs. | | 127 | | 55 | | 72 | | 85 | | 19 | | 66 |
| | Average speed | | 61.13 | | 61.0 | | 61.22 | | 61.01 | | 58.05 | | 61.86 |
| Bnd | No. of vehicles obs. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | Average speed | | I | | I | | I | | I | | I | | I |

TABLE 5 SPEED DATA

Station 4L-17 Highway U.S. 52 Location .25 Miles East of Co. Rd. 475 W

No. of Lanes 4 Type of Surface Asphalt Weather Overcast

This Observation
Date 3/11/77
Time 9:40-11:35AM-WB & 12:40-2:15PM-EB

Last Previous Observation (Speed Report No. 99)
Date 11/1/76
Time 9:25-2:40PM

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | 285 | 288 | 266 | 265 | 19 | 23 | 139 | 170 | 88 | 110 | 51 | 60 |
| | Ave. speed (m.p.h.) | 57.23 | 56.80 | 57.25 | 56.68 | 56.89 | 58.17 | 55.30 | 55.12 | 55.86 | 55.14 | 54.33 | 55.08 |
| | Standard deviation | 6.259 | 5.836 | 6.342 | 5.805 | 5.087 | 6.147 | 6.476 | 5.618 | 6.322 | 5.436 | 6.668 | 5.984 |
| | % of vehicles traveling at or less than 24 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | % of vehicles traveling at or less than 29 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | .72 | 0 | 0 | 0 | 1.96 | 0 |
| | % of vehicles traveling at or less than 34 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | .72 | 0 | 0 | 0 | 1.96 | 0 |
| | % of vehicles traveling at or less than 39 m.p.h. | 0.70 | 1.04 | 0.75 | 1.13 | 0 | 0 | 2.16 | 0 | 1.14 | 0 | 3.92 | 0 |
| | % of vehicles traveling at or less than 44 m.p.h. | 2.81 | 2.08 | 3.01 | 2.26 | 0 | 0 | 5.76 | 5.29 | 5.68 | 5.45 | 5.88 | 5.0 |
| | % of vehicles traveling at or less than 49 m.p.h. | 10.53 | 9.72 | 11.28 | 9.81 | 0 | 8.70 | 11.51 | 15.29 | 9.09 | 15.45 | 15.69 | 15 |
| | % of vehicles traveling at or less than 54 m.p.h. | 28.07 | 33.33 | 28.20 | 33.96 | 26.32 | 26.09 | 41.01 | 45.29 | 39.77 | 42.73 | 43.14 | 50 |
| | % of vehicles traveling at or less than 59 m.p.h. | 64.21 | 69.79 | 63.91 | 70.94 | 68.72 | 56.52 | 78.42 | 75.29 | 77.27 | 78.18 | 80.39 | 70 |
| | % of vehicles traveling at or less than 64 m.p.h. | 88.42 | 92.36 | 87.97 | 93.21 | 94.74 | 82.61 | 96.40 | 97.06 | 94.32 | 98.18 | 100.0 | 95 |
| | % of vehicles traveling at or less than 69 m.p.h. | 97.19 | 98.26 | 96.99 | 98.11 | 100.0 | 100 | 97.84 | 100 | 96.59 | 100 | 100.0 | 100 |
| | % of vehicles traveling at or less than 74 m.p.h. | 99.65 | 100 | 99.62 | 100 | 100.0 | 100 | 99.28 | 100 | 98.86 | 100 | 100.0 | 100 |
| | % of vehicles traveling at or less than 79 m.p.h. | 99.65 | 100 | 99.62 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | % of vehicles traveling at or less than 84 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | % of vehicles traveling at or less than 89 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| Bnd | No. of vehicles obs. | 151 | 164 | 147 | 149 | 4 | 15 | 61 | 82 | 40 | 59 | 21 | 23 |
| | Average speed | 57.68 | 56.90 | 57.67 | 56.70 | 58.00 | 58.87 | 55.95 | 54.85 | 56.10 | 54.90 | 55.67 | 54.74 |
| Bnd | No. of vehicles obs. | 134 | 124 | 119 | 116 | 15 | 8 | 78 | 88 | 48 | 51 | 30 | 37 |
| | Average speed | 56.72 | 56.67 | 56.74 | 56.66 | 56.60 | 56.88 | 54.79 | 55.36 | 55.67 | 55.41 | 53.40 | 55.30 |

TABLE 6 SPEED DATA

Station 4L-32 Highway U.S. 30 Location EB 3.5 Miles West of Waratah City Limit Sign
WB 0.7 Miles West of Waratah City Limit Sign

No. of Lanes 4 Type of Surface Asphalt Weather Clear

This Observation
Date 3/23/77
Time 10:50-11:54AM-WB & 12:22-1:28PM-EB

Last Previous Observation (Speed Report No. 99)
Date 11/3/76
Time 9:30-12:35AM

| | | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 197 | 211 | 165 | 168 | 32 | 43 | 250 | 216 | 59 | 66 | 191 | 150 |
| | Ave. speed (m.p.h.) | | 57.87 | 57.62 | 57.61 | 57.49 | 59.25 | 58.14 | 55.73 | 55.25 | 56.92 | 54.76 | 55.37 | 55.47 |
| | Standard deviation | | 5.244 | 4.934 | 5.327 | 5.124 | 4.628 | 4.121 | 5.969 | 5.746 | 7.826 | 6.481 | 5.238 | 5.400 |
| | % of vehicles traveling at or less than | 24 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 29 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 34 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .46 | 0 | 1.52 | 0 | 0 |
| | | 39 m.p.h. | 0 | .47 | 0 | .60 | 0 | 0 | .80 | .93 | 1.69 | 1.52 | .52 | .67 |
| | | 44 m.p.h. | 1.02 | .95 | 1.21 | 1.19 | 0 | 0 | 5.60 | 5.09 | 8.47 | 7.58 | 4.71 | 4.0 |
| | | 49 m.p.h. | 4.57 | 3.79 | 5.45 | 4.17 | 0 | 2.33 | 13.20 | 13.89 | 13.56 | 21.21 | 13.09 | 10.67 |
| | | 54 m.p.h. | 25.38 | 20.85 | 27.27 | 22.62 | 15.63 | 13.95 | 38.40 | 42.13 | 33.90 | 42.42 | 39.79 | 42.0 |
| | | 59 m.p.h. | 62.44 | 70.14 | 64.85 | 69.05 | 50.00 | 74.42 | 77.20 | 79.63 | 62.17 | 81.82 | 81.68 | 78.67 |
| | | 64 m.p.h. | 90.86 | 92.89 | 91.52 | 94.05 | 87.50 | 88.37 | 94.00 | 96.30 | 84.75 | 95.45 | 96.86 | 96.67 |
| | | 69 m.p.h. | 97.97 | 98.58 | 97.85 | 98.21 | 100.0 | 100 | 98.40 | 99.54 | 93.22 | 98.48 | 100.0 | 100 |
| | | 74 m.p.h. | 100.0 | 99.05 | 100.0 | 98.81 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | | 79 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | | 84 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | | 89 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| Bnd | No. of vehicles obs. | | 100 | 104 | 78 | 79 | 22 | 25 | 111 | 108 | 27 | 27 | 84 | 81 |
| | Average speed | | 59.52 | 58.16 | 59.59 | 58.11 | 59.27 | 58.32 | 58.06 | 56.26 | 60.48 | 53.48 | 57.29 | 57.19 |
| Bnd | No. of vehicles obs. | | 97 | 107 | 87 | 89 | 10 | 18 | 139 | 108 | 32 | 39 | 107 | 69 |
| | Average speed | | 56.18 | 57.09 | 55.83 | 56.93 | 59.20 | 57.89 | 53.87 | 54.25 | 53.91 | 55.64 | 53.86 | 53.46 |

TABLE 7 SPEED DATA

E.B. 1.6 Miles East of SR 39

Station 4L-31 Highway U.S. 30 Location W.B. 1.2 Miles West of U.S. 35

No. of Lanes 4 Type of Surface Asphalt Weather Clear

This Observation
Date 3/23/77
Time 2:05-3:13PM-EB & 3:44-4:43PM-WB

Last Previous Observation (Speed Report No. __)
Date None Taken
Time

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 209 | | 147 | | 62 | | 223 | | 56 | | 167 |
| | Ave. speed (m.p.h.) | | 58.89 | | 58.24 | | 60.44 | | 56.71 | | 57.34 | | 56.50 |
| | Standard deviation | | 4.512 | | 4.597 | | 3.924 | | 4.617 | | 5.822 | | 4.135 |
| | % of vehicles traveling at or less than 24 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 29 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 34 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 39 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 44 m.p.h. | | 0 | | 0 | | 0 | | .90 | | 1.79 | | .60 |
| | 49 m.p.h. | | 1.44 | | 2.04 | | 0 | | 5.83 | | 5.36 | | 5.99 |
| | 54 m.p.h. | | 13.88 | | 17.01 | | 6.45 | | 28.70 | | 32.14 | | 27.54 |
| | 59 m.p.h. | | 56.94 | | 65.31 | | 37.10 | | 74.89 | | 67.86 | | 77.25 |
| | 64 m.p.h. | | 91.87 | | 92.52 | | 90.32 | | 95.96 | | 91.07 | | 97.60 |
| | 69 m.p.h. | | 96.65 | | 96.60 | | 96.77 | | 99.55 | | 98.21 | | 100 |
| | 74 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| | 79 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| | 84 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| | 89 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| Bnd | No. of vehicles obs. | | 101 | | 76 | | 25 | | 117 | | 31 | | 86 |
| | Average speed | | 58.40 | | 57.79 | | 60.24 | | 56.74 | | 56.87 | | 56.70 |
| Bnd | No. of vehicles obs. | | 108 | | 71 | | 37 | | 106 | | 25 | | 81 |
| | Average speed | | 59.35 | | 58.72 | | 60.57 | | 56.68 | | 57.92 | | 56.30 |

TABLE 8 SPEED DATA

Station 4L-7 Highway U.S. 40 Location 2 Miles East of Harmony

No. of Lanes 4 Type of Surface Asphalt Weather Cloudy

This Observation
Date 3/30/77
Time 10:36-12:37PM-EB & 12:51-2:43PM-WB

Last Previous Observation (Speed Report No. __)
Date None Taken
Time

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 260 | | 239 | | 21 | | 170 | | 92 | | 78 |
| | Ave. speed (m.p.h.) | | 55.08 | | 55.05 | | 55.38 | | 51.38 | | 52.83 | | 49.68 |
| | Standard deviation | | 6.271 | | 6.183 | | 7.365 | | 7.551 | | 6.748 | | 8.118 |
| | % of vehicles traveling at or less than 24 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 29 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 34 m.p.h. | | 0 | | 0 | | 0 | | 3.53 | | 0 | | 7.69 |
| | % of vehicles traveling at or less than 39 m.p.h. | | 0 | | 0 | | 0 | | 7.06 | | 3.26 | | 11.54 |
| | % of vehicles traveling at or less than 44 m.p.h. | | 3.85 | | 3.77 | | 4.76 | | 14.71 | | 6.52 | | 24.36 |
| | % of vehicles traveling at or less than 49 m.p.h. | | 16.54 | | 16.32 | | 19.05 | | 37.65 | | 32.61 | | 43.59 |
| | % of vehicles traveling at or less than 54 m.p.h. | | 49.23 | | 49.79 | | 42.86 | | 67.06 | | 61.96 | | 73.08 |
| | % of vehicles traveling at or less than 59 m.p.h. | | 76.54 | | 76.57 | | 76.19 | | 87.06 | | 82.61 | | 92.31 |
| | % of vehicles traveling at or less than 64 m.p.h. | | 92.69 | | 92.89 | | 90.48 | | 97.06 | | 96.74 | | 97.44 |
| | % of vehicles traveling at or less than 69 m.p.h. | | 97.31 | | 97.49 | | 95.24 | | 99.41 | | 98.91 | | 100 |
| | % of vehicles traveling at or less than 74 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 79 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 84 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 89 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| Bnd | No. of vehicles obs. | | 133 | | 124 | | 9 | | 84 | | 42 | | 42 |
| | Average speed | | 56.42 | | 56.15 | | 60.22 | | 53.65 | | 54.19 | | 53.12 |
| Bnd | No. of vehicles obs. | | 127 | | 115 | | 12 | | 86 | | 50 | | 36 |
| | Average speed | | 53.68 | | 53.88 | | 51.75 | | 49.16 | | 51.68 | | 45.67 |

TABLE 9 SPEED DATA

Station 2L-18 Highway U.S. 35 Location 1.5 Miles East of I-69

No. of Lanes 2 Type of Surface Asphalt Weather Overcast

This Observation
Date 3/17/77
Time 2:20-4:23 PM

Last Previous Observation (Speed Report No. 99)
Date 11/8/76
Time 2:23-4:15 PM

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | 330 | 303 | 298 | 271 | 32 | 32 | 151 | 147 | 76 | 75 | 75 | 72 |
| | Ave. speed (m.p.h.) | 56.68 | 56.76 | 56.75 | 56.78 | 56.00 | 56.56 | 55.44 | 53.35 | 55.45 | 54.80 | 55.44 | 51.85 |
| | Standard deviation | 5.807 | 4.692 | 5.860 | 4.706 | 5.328 | 4.642 | 4.874 | 5.424 | 5.029 | 5.448 | 4.746 | 5.006 |
| | % of vehicles traveling at or less than 24 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 29 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 34 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 39 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.72 | 0 | 2.67 | 0 | 2.78 |
| | 44 m.p.h. | .91 | .99 | 1.01 | .74 | 0 | 3.13 | 3.31 | 4.76 | 2.63 | 4.0 | 4.00 | 5.56 |
| | 49 m.p.h. | 6.67 | 5.28 | 6.71 | 5.54 | 6.25 | 3.13 | 11.26 | 21.09 | 11.84 | 12.0 | 10.67 | 30.56 |
| | 54 m.p.h. | 42.12 | 30.03 | 36.24 | 29.89 | 34.38 | 31.25 | 40.40 | 56.46 | 39.47 | 42.67 | 41.33 | 70.83 |
| | 59 m.p.h. | 76.36 | 73.27 | 75.17 | 73.43 | 87.50 | 71.88 | 97.47 | 89.12 | 78.95 | 85.33 | 80.00 | 93.06 |
| | 64 m.p.h. | 91.21 | 96.04 | 90.94 | 95.94 | 93.75 | 96.88 | 98.01 | 97.96 | 97.37 | 96 | 98.67 | 100 |
| | 69 m.p.h. | 96.36 | 98.68 | 96.31 | 98.52 | 96.88 | 100 | 100.0 | 99.32 | 100.0 | 98.67 | 100.0 | 100 |
| | 74 m.p.h. | 98.79 | 100 | 98.66 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | 79 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | 84 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | 89 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| Bnd | No. of vehicles obs. | 165 | 131 | 149 | 119 | 16 | 12 | 75 | 84 | 37 | 42 | 38 | 42 |
| | Average speed | 57.72 | 56.62 | 57.84 | 56.66 | 56.62 | 56.17 | 55.51 | 52.87 | 56.14 | 54.71 | 54.89 | 51.02 |
| Bnd | No. of vehicles obs. | 165 | 172 | 149 | 152 | 16 | 20 | 76 | 63 | 39 | 33 | 37 | 30 |
| | Average speed | 55.64 | 56.87 | 55.66 | 56.88 | 55.37 | 56.80 | 55.38 | 54.00 | 54.79 | 54.91 | 56.00 | 53.0 |

TABLE 10 SPEED DATA

Station 2L-54 Highway U.S. 231 Location 1 Mile South of SR 234

No. of Lanes 2 Type of Surface Asphalt Weather Clear

This Observation
Date 3/16/77
Time 10:14-2:23 PM

Last Previous Observation (Speed Report No. 99)
Date 11/10/76
Time 10:10-1:10 PM

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | 239 | 226 | 223 | 194 | 16 | 32 | 211 | 202 | 64 | 83 | 147 | 119 |
| | Ave. speed (m.p.h.) | 57.35 | 57.08 | 57.23 | 56.69 | 58.94 | 59.44 | 55.36 | 54.71 | 55.84 | 55.58 | 55.06 | 54.10 |
| | Standard deviation | 6.254 | 6.369 | 6.328 | 6.207 | 5.013 | 6.919 | 6.645 | 5.744 | 7.218 | 5.994 | 6.391 | 5.507 |
| | % of vehicles traveling at or less than 24 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 29 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 34 m.p.h. | 0 | .44 | 0 | 0.52 | 0 | 0 | 0 | .50 | 0 | 0 | 0 | .84 |
| | 39 m.p.h. | .42 | .44 | .45 | 0.52 | 0 | 0 | 1.90 | 1.49 | 1.56 | 1.20 | 2.04 | 1.68 |
| | 44 m.p.h. | 2.51 | 1.77 | 2.69 | 2.06 | 0 | 0 | 8.06 | 2.48 | 6.25 | 1.20 | 8.84 | 3.36 |
| | 49 m.p.h. | 8.79 | 11.50 | 8.97 | 12.37 | 6.25 | 6.25 | 16.11 | 17.33 | 21.88 | 14.46 | 13.61 | 19.33 |
| | 54 m.p.h. | 29.71 | 31.42 | 30.49 | 34.54 | 18.75 | 12.50 | 39.81 | 48.02 | 43.75 | 44.58 | 38.10 | 50.42 |
| | 59 m.p.h. | 69.46 | 69.91 | 69.96 | 71.65 | 62.50 | 59.38 | 72.99 | 82.67 | 68.75 | 79.52 | 74.83 | 84.87 |
| | 64 m.p.h. | 89.54 | 89.38 | 89.69 | 90.72 | 87.50 | 81.25 | 95.26 | 96.53 | 90.63 | 95.18 | 97.28 | 97.48 |
| | 69 m.p.h. | 96.23 | 96.46 | 95.96 | 97.42 | 100.0 | 90.63 | 98.58 | 98.51 | 96.88 | 96.39 | 99.32 | 100 |
| | 74 m.p.h. | 99.16 | 98.67 | 99.10 | 98.97 | 100.0 | 96.88 | 100.0 | 99.50 | 100.0 | 98.80 | 100.0 | 100 |
| | 79 m.p.h. | 99.58 | 99.56 | 99.55 | 99.48 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | 84 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | 89 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| Bnd | No. of vehicles obs. | 137 | 110 | 133 | 94 | 4 | 16 | 99 | 104 | 27 | 38 | 72 | 66 |
| | Average speed | 56.83 | 57.63 | 56.77 | 57.11 | 59.00 | 60.69 | 55.10 | 53.89 | 55.70 | 55.18 | 54.87 | 53.15 |
| Bnd | No. of vehicles obs. | 192 | 116 | 90 | 100 | 12 | 16 | 112 | 98 | 37 | 45 | 75 | 53 |
| | Average speed | 58.04 | 56.55 | 57.92 | 56.29 | 58.92 | 58.19 | 55.47 | 55.57 | 55.95 | 55.91 | 55.24 | 55.28 |

TABLE 11 SPEED DATA

Station 2L-84 Highway U.S. 150 Location 4.8 Miles North of U.S. 40

No. of Lanes 2 Type of Surface Asphalt Weather Clear

This Observation
Date 3/21/77
Time 11:17-3:39 PM

Last Previous Observation (Speed Report No. __)
Date None Taken
Time

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 283 | | 234 | | 49 | | 183 | | 132 | | 51 |
| | Ave. speed (m.p.h.) | | 55.98 | | 55.54 | | 58.10 | | 54.0 | | 55.71 | | 49.57 |
| | Standard deviation | | 7.164 | | 7.214 | | 6.584 | | 7.398 | | 6.626 | | 7.513 |
| | % of vehicles traveling at or less than 24 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 29 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 34 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 39 m.p.h. | | .35 | | .43 | | 0 | | 3.28 | | .76 | | 9.80 |
| | % of vehicles traveling at or less than 44 m.p.h. | | 4.95 | | 5.56 | | 2.04 | | 11.48 | | 6.06 | | 25.49 |
| | % of vehicles traveling at or less than 49 m.p.h. | | 16.61 | | 18.38 | | 8.16 | | 25.14 | | 15.15 | | 50.98 |
| | % of vehicles traveling at or less than 54 m.p.h. | | 42.76 | | 46.58 | | 24.49 | | 50.82 | | 41.67 | | 74.51 |
| | % of vehicles traveling at or less than 59 m.p.h. | | 72.08 | | 74.79 | | 59.18 | | 78.69 | | 75. | | 88.24 |
| | % of vehicles traveling at or less than 64 m.p.h. | | 90.11 | | 90.60 | | 87.76 | | 91.80 | | 89.39 | | 98.04 |
| | % of vehicles traveling at or less than 69 m.p.h. | | 96.47 | | 96.58 | | 95.92 | | 98.36 | | 97.73 | | 100 |
| | % of vehicles traveling at or less than 74 m.p.h. | | 98.23 | | 98.29 | | 97.96 | | 99.45 | | 99.24 | | 100 |
| | % of vehicles traveling at or less than 79 m.p.h. | | 98.59 | | 98.72 | | 97.96 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 84 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 89 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| Bnd | No. of vehicles obs. | | 136 | | 123 | | 13 | | 92 | | 67 | | 25 |
| | Average speed | | 56.76 | | 56.59 | | 58.46 | | 54.84 | | 56.03 | | 51.64 |
| Bnd | No. of vehicles obs. | | 147 | | 111 | | 36 | | 91 | | 65 | | 26 |
| | Average speed | | 55.26 | | 54.38 | | 57.97 | | 53.15 | | 55.38 | | 47.58 |

TABLE 12 SPEED DATA

Station 21-17 Highway U.S. 6 Location 1.3 Miles East of DeKalb-Noble Co. Line

No. of Lanes 2 Type of Surface Asphalt Weather Clear

This Observation
Date 3/24/77
Time 9:42AM - 12:10 PM

Last Previous Observation (Speed Report No. __)
Date None Taken
Time

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 211 | | 176 | | 35 | | 228 | | 81 | | 147 |
| | Ave. speed (m.p.h.) | | 57.30 | | 56.97 | | 59.0 | | 55.83 | | 57.04 | | 55.16 |
| | Standard deviation | | 6.466 | | 6.506 | | 6.063 | | 6.124 | | 5.717 | | 6.256 |
| | % of vehicles traveling at or less than 24 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 29 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 34 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 39 m.p.h. | | 0 | | 0 | | 0 | | 3.07 | | 0 | | 4.76 |
| | % of vehicles traveling at or less than 44 m.p.h. | | 2.37 | | 2.84 | | 0 | | 4.39 | | 1.23 | | 6.12 |
| | % of vehicles traveling at or less than 49 m.p.h. | | 10.43 | | 12.50 | | 0 | | 10.96 | | 11.11 | | 10.88 |
| | % of vehicles traveling at or less than 54 m.p.h. | | 30.33 | | 30.68 | | 28.57 | | 36.84 | | 28.40 | | 41.50 |
| | % of vehicles traveling at or less than 59 m.p.h. | | 65.88 | | 67.05 | | 60 | | 74.12 | | 69.14 | | 76.87 |
| | % of vehicles traveling at or less than 64 m.p.h. | | 88.63 | | 89.77 | | 82.86 | | 94.74 | | 90.12 | | 97.28 |
| | % of vehicles traveling at or less than 69 m.p.h. | | 96.68 | | 97.16 | | 94.29 | | 98.68 | | 96.30 | | 100 |
| | % of vehicles traveling at or less than 74 m.p.h. | | 99.05 | | 99.43 | | 97.14 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 79 m.p.h. | | 99.53 | | 99.43 | | 100 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 84 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 89 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| Bnd | No. of vehicles obs. | | 99 | | 83 | | 16 | | 112 | | 43 | | 69 |
| Bnd | Average speed | | 57.74 | | 57.40 | | 59.50 | | 56.83 | | 58.53 | | 55.77 |
| Bnd | No. of vehicles obs. | | 112 | | 93 | | 19 | | 116 | | 38 | | 78 |
| Bnd | Average speed | | 56.92 | | 56.58 | | 58.58 | | 54.86 | | 55.34 | | 54.63 |

TABLE 13 SPEED DATA

Station UI-6 Highway I-65 Location East of White River

No. of Lanes 6 Type of Surface Concrete Weather Cloudy

This Observation
Date 3/31/77
Time 10:08-10:40AM-EB & 11:04-11:34AM-WB

Last Previous Observation (Speed Report No. 99)
Date 11/4/76
Time 1:40-3:40PM

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | 284 | 271 | 267 | 243 | 17 | 28 | 137 | 166 | 62 | 69 | 75 | 97 |
| | Ave. speed (m.p.h.) | 57.80 | 57.02 | 57.53 | 57.00 | 58.82 | 57.18 | 56.07 | 56.43 | 56.40 | 55.67 | 55.79 | 56.98 |
| | Standard deviation | 4.290 | 4.899 | 4.303 | 4.948 | 4.081 | 4.522 | 4.959 | 4.940 | 4.785 | 5.218 | 5.113 | 4.684 |
| | % of vehicles traveling at or less than 24 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 29 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 34 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .60 | 0 | 1.45 | 0 | 0 |
| | 39 m.p.h. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .60 | 0 | 1.45 | 0 | 0 |
| | 44 m.p.h. | 0 | 1.48 | 0 | 1.65 | 0 | 0 | 2.19 | 1.81 | 0 | 2.90 | 4.00 | 1.03 |
| | 49 m.p.h. | 2.11 | 6.27 | 2.25 | 6.58 | 0 | 3.57 | 9.49 | 7.83 | 8.06 | 8.70 | 10.67 | 7.22 |
| | 54 m.p.h. | 21.48 | 29.52 | 22.10 | 29.63 | 11.76 | 28.57 | 33.58 | 31.33 | 33.87 | 34.78 | 33.33 | 28.87 |
| | 59 m.p.h. | 65.85 | 70.85 | 65.92 | 70.78 | 64.71 | 71.43 | 78.10 | 76.51 | 72.58 | 85.51 | 82.67 | 70.10 |
| | 64 m.p.h. | 94.37 | 94.10 | 94.76 | 94.24 | 88.24 | 92.86 | 97.08 | 96.99 | 96.77 | 98.55 | 97.33 | 95.88 |
| | 69 m.p.h. | 99.65 | 98.15 | 99.63 | 97.94 | 100.0 | 100 | 98.54 | 99.40 | 96.77 | 100 | 100.0 | 98.97 |
| | 74 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | 79 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | 84 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| | 89 m.p.h. | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 |
| Bnd | No. of vehicles obs. | 135 | 135 | 127 | 119 | 8 | 16 | 75 | 83 | 32 | 35 | 43 | 48 |
| | Average speed | 57.63 | 57.83 | 57.57 | 57.77 | 58.62 | 58.25 | 55.95 | 56.22 | 56.62 | 56.14 | 55.44 | 56.27 |
| Bnd | No. of vehicles obs. | 149 | 136 | 140 | 124 | 9 | 12 | 62 | 83 | 30 | 34 | 32 | 49 |
| | Average speed | 57.59 | 56.21 | 57.89 | 56.26 | 59.00 | 55.75 | 56.21 | 56.65 | 56.17 | 55.18 | 56.25 | 57.67 |

TABLE 14 SPEED DATA

Station UI-8 Highway U.S. 265 Location E.B. 0.3 Miles East of 1 Mile Marker
W.B. 0.7 Miles East of Bridge of SR 111

No. of Lanes 4 Type of Surface Concrete Weather Clear

This Observation
Date 3/15/77
Time 9:04-9:57 AM - EB
10:31-11:30 AM-WB

Last Previous Observation (Speed Report No. __)
Date None Taken
Time

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 285 | | 241 | | 44 | | 141 | | 66 | | 75 |
| | Ave. speed (m.p.h.) | | 57.07 | | 57.08 | | 56.98 | | 55.62 | | 56.15 | | 55.16 |
| | Standard deviation | | 5.976 | | 6.022 | | 5.789 | | 5.465 | | 5.393 | | 5.522 |
| | % of vehicles traveling at or less than 24 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 29 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 34 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 39 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | % of vehicles traveling at or less than 44 m.p.h. | | 1.05 | | .83 | | 2.27 | | 2.13 | | 0 | | 4.0 |
| | % of vehicles traveling at or less than 49 m.p.h. | | 6.32 | | 6.22 | | 6.82 | | 14.18 | | 7.58 | | 20.0 |
| | % of vehicles traveling at or less than 54 m.p.h. | | 33.68 | | 33.61 | | 34.09 | | 39.72 | | 37.88 | | 41.33 |
| | % of vehicles traveling at or less than 59 m.p.h. | | 70.53 | | 70.95 | | 68.18 | | 78.72 | | 75.76 | | 81.33 |
| | % of vehicles traveling at or less than 64 m.p.h. | | 91.93 | | 91.70 | | 93.18 | | 95.74 | | 92.42 | | 98.67 |
| | % of vehicles traveling at or less than 69 m.p.h. | | 97.19 | | 97.10 | | 97.73 | | 97.87 | | 96.97 | | 98.67 |
| | % of vehicles traveling at or less than 74 m.p.h. | | 99.30 | | 99.59 | | 97.73 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 79 m.p.h. | | 99.65 | | 99.59 | | 100 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 84 m.p.h. | | 99.65 | | 99.59 | | 100 | | 100 | | 100 | | 100 |
| | % of vehicles traveling at or less than 89 m.p.h. | | 99.65 | | 99.59 | | 100 | | 100 | | 100 | | 100 |
| Bnd | No. of vehicles obs. | | 142 | | 119 | | 23 | | 70 | | 32 | | 38 |
| | Average speed | | 57.71 | | 57.58 | | 58.39 | | 57.56 | | 57.66 | | 57.47 |
| Bnd | No. of vehicles obs. | | 143 | | 122 | | 21 | | 71 | | 34 | | 37 |
| | Average speed | | 56.43 | | 56.60 | | 55.43 | | 53.72 | | 54.74 | | 52.78 |

TABLE 15 SPEED DATA

Station _____ Highway Interstate, Rural Location See Individual Stations

No. of Lanes _____ Type of Surface _____ Weather _____

This Observation
Date Jan.-Mar. 1977
Time _____

Last Previous Observation (Speed Report No. __)
Date _____
Time _____

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 876 | | 421 | | 455 | | 671 | | 197 | | 474 |
| | Ave. speed (m.p.h.) | | 60.54 | | 60.09 | | 60.95 | | 58.89 | | 58.02 | | 59.26 |
| | Standard deviation | | 5.342 | | 5.321 | | 5.334 | | 5.303 | | 5.518 | | 5.174 |
| | % of vehicles traveling at or less than 24 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 29 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 34 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 39 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 44 m.p.h. | | .11 | | .24 | | 0 | | .75 | | 2.03 | | .21 |
| | 49 m.p.h. | | 2.28 | | 2.61 | | 1.98 | | 4.02 | | 5.08 | | 3.59 |
| | 54 m.p.h. | | 10.50 | | 12.59 | | 8.57 | | 19.67 | | 24.87 | | 17.51 |
| | 59 m.p.h. | | 42.47 | | 46.08 | | 39.12 | | 54.69 | | 63.96 | | 50.84 |
| | 64 m.p.h. | | 82.42 | | 83.85 | | 81.10 | | 86.59 | | 88.83 | | 85.65 |
| | 69 m.p.h. | | 94.06 | | 94.54 | | 93.63 | | 97.32 | | 97.97 | | 97.05 |
| | 74 m.p.h. | | 98.40 | | 98.57 | | 98.24 | | 99.55 | | 99.49 | | 99.58 |
| | 79 m.p.h. | | 99.77 | | 99.76 | | 99.78 | | 100 | | 100 | | 100 |
| | 84 m.p.h. | | 99.89 | | 100 | | 99.78 | | 100 | | 100 | | 100 |
| | 89 m.p.h. | | 99.89 | | 100 | | 99.78 | | 100 | | 100 | | 100 |

TABLE 16 SPEED DATA

Station _____ Highway 4-Lane, Rural Location See Individual Stations

No. of Lanes _____ Type of Surface _____ Weather _____

This Observation
Date Jan.-Mar. 1977
Time _____

Last Previous Observation (Speed Report No. __)
Date _____
Time _____

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 968 | | 819 | | 149 | | 779 | | 324 | | 455 |
| | Ave. speed (m.p.h.) | | 56.97 | | 56.65 | | 58.71 | | 54.80 | | 54.78 | | 54.81 |
| | Standard deviation | | 5.671 | | 5.698 | | 5.203 | | 6.175 | | 6.268 | | 6.114 |
| | % of vehicles traveling at or less than 24 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 29 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 34 m.p.h. | | 0 | | 0 | | 0 | | .90 | | .31 | | 1.32 |
| | 39 m.p.h. | | .41 | | .49 | | 0 | | 1.80 | | 1.23 | | 2.20 |
| | 44 m.p.h. | | 1.86 | | 2.08 | | .67 | | 6.03 | | 5.56 | | 6.37 |
| | 49 m.p.h. | | 8.47 | | 9.16 | | 4.70 | | 17.07 | | 19.75 | | 15.16 |
| | 54 m.p.h. | | 30.68 | | 33.21 | | 16.78 | | 44.42 | | 46.30 | | 43.08 |
| | 59 m.p.h. | | 68.90 | | 71.18 | | 56.38 | | 78.95 | | 78.40 | | 79.34 |
| | 64 m.p.h. | | 92.46 | | 93.16 | | 88.59 | | 96.53 | | 95.99 | | 96.92 |
| | 69 m.p.h. | | 97.73 | | 97.68 | | 97.99 | | 99.61 | | 99.07 | | 100 |
| | 74 m.p.h. | | 99.79 | | 99.76 | | 100 | | 100 | | 100 | | 100 |
| | 79 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| | 84 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| | 89 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |

TABLE 17 SPEED DATA

Station _____ Highway 2-Lane Rural Location See Individual Stations

No. of Lanes _____ Type of Surface _____ Weather _____

This Observation
Date Jan.-Mar. 1977
Time _____

Last Previous Observation (Speed Report No. __)
Date _____
Time _____

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 1023 | | 875 | | 148 | | 760 | | 371 | | 389 |
| | Ave. speed (m.p.h.) | | 56.73 | | 56.47 | | 58.27 | | 54.61 | | 55.79 | | 53.49 |
| | Standard deviation | | 6.20 | | 6.166 | | 6.194 | | 6.291 | | 6.088 | | 6.286 |
| | % of vehicles traveling at or less than 24 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 29 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 34 m.p.h. | | .10 | | .11 | | 0 | | .13 | | 0 | | .26 |
| | 39 m.p.h. | | .20 | | .23 | | 0 | | 2.63 | | 1.08 | | 4.11 |
| | 44 m.p.h. | | 2.54 | | 2.74 | | 1.35 | | 5.66 | | 3.50 | | 7.71 |
| | 49 m.p.h. | | 10.85 | | 11.89 | | 4.73 | | 18.03 | | 13.48 | | 22.37 |
| | 54 m.p.h. | | 33.92 | | 35.54 | | 24.32 | | 46.97 | | 39.62 | | 53.98 |
| | 59 m.p.h. | | 70.67 | | 72.11 | | 62.16 | | 80.39 | | 76.82 | | 83.80 |
| | 64 m.p.h. | | 91.40 | | 92.11 | | 87.16 | | 95.13 | | 92.18 | | 97.94 |
| | 69 m.p.h. | | 97.17 | | 97.49 | | 95.27 | | 98.68 | | 97.30 | | 100 |
| | 74 m.p.h. | | 99.02 | | 99.20 | | 97.97 | | 99.74 | | 99.46 | | 100 |
| | 79 m.p.h. | | 99.41 | | 99.43 | | 99.32 | | 100 | | 100 | | 100 |
| | 84 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |
| | 89 m.p.h. | | 100 | | 100 | | 100 | | 100 | | 100 | | 100 |

TABLE 18 SPEED DATA

Station _____ Highway Interstate, Urban Location See Individual Stations

No. of Lanes _____ Type of Surface _____ Weather _____

This Observation
Date Jan.-Mar. 1977
Time _____

Last Previous Observation (Speed Report No. __)
Date _____
Time _____

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 556 | | 484 | | 72 | | 307 | | 135 | | 172 |
| | Ave. speed (m.p.h.) | | 57.04 | | 57.04 | | 57.06 | | 56.06 | | 55.90 | | 56.19 |
| | Standard deviation | | 5.473 | | 5.503 | | 5.299 | | 5.195 | | 5.290 | | 5.131 |
| | % of vehicles traveling at or less than 24 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 29 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 34 m.p.h. | | 0 | | 0 | | 0 | | .33 | | .74 | | 0 |
| | 39 m.p.h. | | 0 | | 0 | | 0 | | .33 | | .74 | | 0 |
| | 44 m.p.h. | | 1.26 | | 1.24 | | 1.39 | | 1.95 | | 1.48 | | 2.33 |
| | 49 m.p.h. | | 6.29 | | 6.40 | | 5.56 | | 10.75 | | 8.15 | | 12.79 |
| | 54 m.p.h. | | 31.65 | | 31.61 | | 31.94 | | 35.18 | | 36.30 | | 34.30 |
| | 59 m.p.h. | | 70.68 | | 70.87 | | 69.44 | | 77.52 | | 80.74 | | 75.0 |
| | 64 m.p.h. | | 92.99 | | 92.98 | | 93.06 | | 96.42 | | 95.56 | | 97.09 |
| | 69 m.p.h. | | 97.66 | | 97.52 | | 98.61 | | 98.70 | | 98.52 | | 98.84 |
| | 74 m.p.h. | | 99.64 | | 99.79 | | 98.61 | | 100 | | 100 | | 100 |
| | 79 m.p.h. | | 99.82 | | 99.79 | | 100 | | 100 | | 100 | | 100 |
| | 84 m.p.h. | | 99.82 | | 99.79 | | 100 | | 100 | | 100 | | 100 |
| | 89 m.p.h. | | 99.82 | | 99.79 | | 100 | | 100 | | 100 | | 100 |

TABLE 19 SPEED DATA

Station _____ Highway Indiana System Location See Individual Stations

No. of Lanes _____ Type of Surface _____ Weather _____

This Observation
Date Jan.-Mar. 1977
Time _____

Last Previous Observation (Speed Report No. __)
Date _____
Time _____

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | All | | Indiana | | Non-Indiana | | All | | <5000 lbs. | | >5000 lbs. | |
| | OBSERVATION | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles | No. of vehicles obs. | | 3423 | | 2599 | | 824 | | 2517 | | 1027 | | 1490 |
| | Ave. speed (m.p.h.) | | 57.82 | | 57.22 | | 59.72 | | 55.99 | | 55.91 | | 56.04 |
| | Standard deviation | | 5.939 | | 5.904 | | 5.644 | | 6.145 | | 6.038 | | 6.219 |
| | % of vehicles traveling at or less than 24 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 29 m.p.h. | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | 34 m.p.h. | | .03 | | .04 | | 0 | | .36 | | .19 | | .47 |
| | 39 m.p.h. | | .18 | | .23 | | 0 | | 1.39 | | .88 | | .74 |
| | 44 m.p.h. | | 1.52 | | 1.85 | | .49 | | 4.01 | | 3.60 | | 4.30 |
| | 49 m.p.h. | | 7.25 | | 8.5 | | 3.28 | | 13.11 | | 13.15 | | 13.09 |
| | 54 m.p.h. | | 26.64 | | 30.36 | | 14.93 | | 37.47 | | 38.46 | | 36.78 |
| | 59 m.p.h. | | 62.96 | | 67.37 | | 49.03 | | 72.75 | | 75.37 | | 70.94 |
| | 64 m.p.h. | | 89.66 | | 91.27 | | 84.59 | | 93.44 | | 93.18 | | 93.62 |
| | 69 m.p.h. | | 96.61 | | 97.08 | | 95.15 | | 98.61 | | 98.15 | | 98.93 |
| | 74 m.p.h. | | 99.18 | | 99.38 | | 98.54 | | 99.80 | | 99.71 | | 99.87 |
| | 79 m.p.h. | | 99.74 | | 99.73 | | 99.76 | | 100 | | 100 | | 100 |
| | 84 m.p.h. | | 99.94 | | 99.96 | | 99.88 | | 100 | | 100 | | 100 |
| | 89 m.p.h. | | 99.94 | | 99.96 | | 99.88 | | 100 | | 100 | | 100 |

# TABLE 20

Monitoring of Speed
(Statistical Summary)

☒ Quarterly Report--Calendar Quarter Ending March 31, 1977

or

☐ Annual Report--Year Ending _____

STATE Indiana

| | Miles | Number of Monitor Locations | Number of Vehicles Measured | Duration of Measurement Session (Hours) | Average Speed (MPH) | Median Speed (MPH) | 85th Percentile Speed (MPH) | Percent of Motorists Exceeding | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 55 MPH | 60 MPH | 65 MPH |
| Interstate Urban | 218 | 2 | 863 | 2.8 | 56.7 | 56.0 | 61.1 | 60 | 22 | 4 |
| Interstate Rural | 849 | 4 | 1547 | 4.0 | 59.8 | 59.3 | 64.2 | 81 | 44 | 12 |
| Multi-lane, Divided | 657 | 4 | 1747 | 10.7 | 56.0 | 55.9 | 61.1 | 57 | 21 | 4 |
| Multi-lane, Undivided | | (included in multi-lane, divided classification) | | | | | | | | |
| 2-Lane, Rural | 8030 | 4 | 1783 | 12.8 | 55.8 | 55.4 | 61.1 | 53 | 20 | 6 |
| State Total | 9754 | 14 | 5940 | 30.3 | 57.0 | 56.6 | 62.1 | 63 | 27 | 7 |

TABLE 21

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Interstate, Rural

STATION NUMBER RI-6 LOCATION I-65, 7.5 miles north of junction of SR 160

NUMBER OF SESSIONS 1 DATES 3/14/77 VEHICLES MEASURED 477

AVERAGE SPEED (MPH) 60.1 STANDARD DEVIATION (MPH) 5.3

MEDIAN SPEED (MPH) 59.6 85TH PERCENTILE SPEED (MPH) 64.2

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 83.0 60 MPH: 47.0 65 MPH: 12.4

TABLE 22

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Interstate, Rural

STATION NUMBER RI-21 LOCATION I-69, 3.3 miles south of junction of SR 18

NUMBER OF SESSIONS 1 DATES 3/17/77 VEHICLES MEASURED 428

AVERAGE SPEED (MPH) 59.2 STANDARD DEVIATION (MPH) 5.2

MEDIAN SPEED (MPH) 58.6 85TH PERCENTILE SPEED (MPH) 63.6

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 78.0 60 MPH: 38.3 65 MPH: 11.0

TABLE 23

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Interstate, Rural

STATION NUMBER RI-8 LOCATION I-65, 2.8 miles north of SR 46

NUMBER OF SESSIONS 1 DATES 3/29/77 VEHICLES MEASURED 430

AVERAGE SPEED (MPH) 59.5 STANDARD DEVIATION (MPH) 5.6

MEDIAN SPEED (MPH) 58.7 85TH PERCENTILE SPEED (MPH) 64.2

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 78.6 60 MPH: 41.4 65 MPH: 12.6

TABLE 24

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Interstate, Rural

STATION NUMBER RI-30 LOCATION I-65, 1.4 miles north of SR 14

NUMBER OF SESSIONS 1 DATES 3/25/77 VEHICLES MEASURED 212

AVERAGE SPEED (MPH) 61.1 STANDARD DEVIATION (MPH) 5.2

MEDIAN SPEED (MPH) 60.5 85TH PERCENTILE SPEED (MPH) 64.6

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 88.7 60 MPH: 55.2 65 MPH: 11.3

TABLE 25

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Multi-Lane, Divided (Rural)

STATION NUMBER 4L-17 LOCATION U.S. 52, 1 mile west of Klondike

NUMBER OF SESSIONS 1 DATES 3/11/77 VEHICLES MEASURED 458

AVERAGE SPEED (MPH) 56.2 STANDARD DEVIATION (MPH) 5.8

MEDIAN SPEED (MPH) 56.1 85TH PERCENTILE SPEED (MPH) 61.3

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 57.4 60 MPH: 23.6 65 MPH: 5.0

TABLE 26

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Multi-Lane, Divided (Rural)

STATION NUMBER 4L-32 LOCATION U.S. 30, 2.0 miles east of junction of SR 49

NUMBER OF SESSIONS 1 DATES 3/23/77 VEHICLES MEASURED 427

AVERAGE SPEED (MPH) 56.4 STANDARD DEVIATION (MPH) 5.5

MEDIAN SPEED (MPH) 56.3 85TH PERCENTILE SPEED (MPH) 61.0

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 61.1 60 MPH: 20.4 65 MPH: 3.8

TABLE 27

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Multi-Lane, Divided (Rural)

STATION NUMBER 4L-31 LOCATION U.S. 30, 1.6 miles east of SR 39

NUMBER OF SESSIONS 1 DATES 3/23/77 VEHICLES MEASURED 432

AVERAGE SPEED (MPH) 57.8 STANDARD DEVIATION (MPH) 4.7

MEDIAN SPEED (MPH) 57.4 85TH PERCENTILE SPEED (MPH) 61.7

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 71.8 60 MPH: 23.4 65 MPH: 4.2

TABLE 28

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Multi-Lane, Divided (Rural)

STATION NUMBER 4L-7 LOCATION U.S. 40, 2 miles east of Harmony

NUMBER OF SESSIONS 1 DATES 3/30/77 VEHICLES MEASURED 430

AVERAGE SPEED (MPH) 53.6 STANDARD DEVIATION (MPH) 7.0

MEDIAN SPEED (MPH) 53.1 85TH PERCENTILE SPEED (MPH) 60.1

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 38.4 60 MPH: 15.4 65 MPH: 4.2

TABLE 29

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Two-Lane, Rural

STATION NUMBER 2L-18 LOCATION U.S.35, 2 miles east of I-69

NUMBER OF SESSIONS 1 DATES 3/17/77 VEHICLES MEASURED 450

AVERAGE SPEED (MPH) 55.6 STANDARD DEVIATION (MPH) 5.2

MEDIAN SPEED (MPH) 55.3 85TH PERCENTILE SPEED (MPH) 60.0

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 53.1 60 MPH: 15.1 65 MPH: 3.1

TABLE 30

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Two Lane, Rural

STATION NUMBER 2L-54 LOCATION U.S. 231, 1.1 miles south of S.R. 234

NUMBER OF SESSIONS 1 DATES 3/16/77 VEHICLES MEASURED 428

AVERAGE SPEED (MPH) 56.0 STANDARD DEVIATION (MPH) 6.2

MEDIAN SPEED (MPH) 55.3 85TH PERCENTILE SPEED (MPH) 61.2

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 52.1 60 MPH: 19.4 65 MPH: 6.1

TABLE 31

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Two-Lane, Rural

STATION NUMBER 2L-84 LOCATION U.S. 150, 4.85 miles north of U.S. 40

NUMBER OF SESSIONS 1 DATES 3/21/77 VEHICLES MEASURED 466

AVERAGE SPEED (MPH) 55.2 STANDARD DEVIATION (MPH) 7.3

MEDIAN SPEED (MPH) 54.6 85TH PERCENTILE SPEED (MPH) 61.5

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 47.8 60 MPH: 21.7 65 MPH: 6.9

TABLE 32

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Two-Lane, Rural

STATION NUMBER 2L-17 LOCATION U.S. 6, 1.3 miles east of Dekalb-Noble Co.Line

NUMBER OF SESSIONS 1 DATES 3/24/77 VEHICLES MEASURED 439

AVERAGE SPEED (MPH) 56.5 STANDARD DEVIATION (MPH) 6.3

MEDIAN SPEED (MPH) 56.2 85TH PERCENTILE SPEED (MPH) 62.1

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 59.4 60 MPH: 23.2 65 MPH: 6.6

TABLE 33

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Interstate, Urban

STATION NUMBER UI-6 LOCATION I-65, east of White River Bridge

NUMBER OF SESSIONS 1 DATES 3/31/77 VEHICLES MEASURED 437

AVERAGE SPEED (MPH) 56.8 STANDARD DEVIATION (MPH) 4.9

MEDIAN SPEED (MPH) 56.3 85TH PERCENTILE SPEED (MPH) 610

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 62.7 60 MPH: 21.0 65 MPH: 3.2

COVER DESIGN BY ALDO GIORGINI